# Time relays Series clip CM3X/CM3V

1.2

☐ installation profile according to VDE 43 880

- ☐ multi-function time relays, 8 functions
- 6 switchable time ranges
- ☐ 18-264 V AC/DC zoom voltage

approvals:



# **Technical Data:**

**Supply voltages:**Continously variable voltage: 24 to 240 V AC/DC

Acceptable voltage variation 0.75 to 1.1 U.

Frequency range 45-65 Hz Duty cycle 100% IEC class 1c

#### **Environmental conditions:**

Permissible ambient temperature -25°C to +55°C HVF climatic resistance to DIN 40040

Repetition accuracy under constant condition (as % of full range)  $\leq$  1 % Accuracy of adjustment  $\leq$  5 % Effect of temperature  $\leq$  0,1 %/°C Reset time ~ 100 ms

#### Mechanical data//specifications:

Enclosure in self-extinguishing plastic Type of protection IP 40 To meet the ÖVE-standards for household - applications require a 0,47 µF capacitor

Type X: Terminals up to 4 mm² with protection against accidental contact. Type V: 11-pin plug-in base.

#### Dimensions and standards:

3X: 78,6 x 35 x 66 mm (h x b x d) 3V: 78,6 x 35 x 76 mm (h x b x d) X: Mounting on DIN rails to DIN 46277/3 (European standard EN 50 0222) Connection via terminals up to 4 mm<sup>2</sup> with protection against accidental contact. Type of protection IP20 Protection against contact to VDE 0106 and VBG 4 Terminal arrangement and connection markings to DIN 46 199

V: Mounting and connection via 11-pin screw or soldered plug. Fixing via retaining clip BU 351. Pin arrangement and connection markings to IEC 67-1-18a

3X. 3V:

2 changeover

Max. switching voltage: 250 VAC/DC

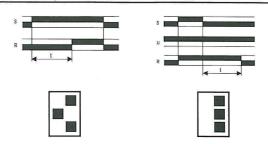
Continuous current: max, 8 A Switching capacity: 230 V AC cosq1 1500 VA

Contact life: 230 VAC 4 A resistive approx 2 · 10<sup>5</sup> switching operations. Mechanical life: approx 20·10° switching operations

### E on-delay

R off-delay

# Function diagram and function selection:



### Description of function:

When input voltage U is applied, the set time t begins to run. When time thas elapsed, output relay R energises and remains on until the input voltage U is removed from the unit. If the input voltage U is removed from the unit before time t has elapsed, the time already elapsed is cancelled and re-starts from zero on the next cycle.

Input voltage U must be applied continuously to the unit. When control contact S is closed, the output relays R energises immediately. If control contact S is opened, the set time t begins to run.

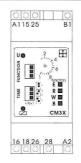
When time t has elapsed, output relay R1 returns to the off-position. If control contact S is closed again before time t expires, the time already elapsed is cancelled, and re-starts from zero on the next cycle.

#### Selection of time ranges:

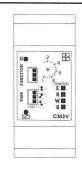
Time ranges: 10 sec 1 min 10 min 1 h 1 sec 10 h switch setting: 100

# Front view:

CM3**X** 



CM3V



# Types:

СМЗХ CM3V

# Accessories:

Mounting plate MP Dip-switch cover DA3 Plug-in base TVE 11 Plug-in base TVE 12

#### Connection:

CM3X

CM3V

# CM3X



CM3V

1.2 - 6



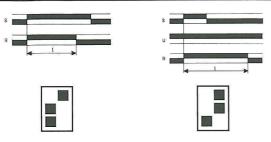
eW(U) single shot leading edge

eW(S) single shot leading edge pulse started

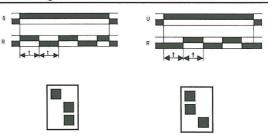
### Bi flasher pulse start

Bp flasher pause start

### Function diagram and function selection:



### Function diagram and function selection:



# Description of function:

output relay Renergises immediately continuously to the unit. When the and set time t begins to run.

When time t has elapsed, output output relay Rreturns to the off-position. The immediately and set time t begins input voltage U must be applied for to run. When time t has elapsed,

This function can thus be used for be switched at will during time t. A pulse shortening. If the input voltage U is removed from the unit before the current one is completed. time thas elapsed, the time already elapsed is cancelled and re-starts at zero on the next cycle.

When input voltage U is applied The input voltage U must be applied control contact S is closed, the output relay R energises longer than the set time t, for the output relay R returns to the off-function to be fully executed. new cycle can only be started when

If the input voltage U is removed from the unit before time t has elapsed, the relay is released and the time already elapsed is cancelled and re-starts from zero on the next cycle.

### Description of function:

When the input voltage U is applied, When the input voltage U is applied, the output relay R energises immediately and the set time t begins to run. Then the output relay R resets and remains in the offposition for time t. The output relay continues operating in the mark-space ratio of 1:1 for as long as the input voltage is applied to the unit.

the set time t begins to run. Then the output relay R comes into operation and remains in the on-position for time t.

The output relay R continues operating at a mark-space ratio of 1:1 for as long as the input voltage U is applied to the unit.

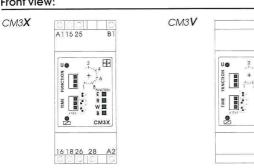
#### Selection of time ranges:

Time ranges:	1 sec	10 sec	1 min	10 min	1 h	10 h
switch setting:						

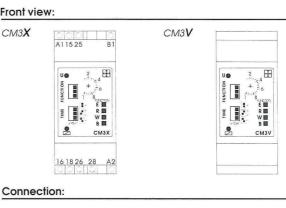
# Selection of time ranges:

Time ranges:	1 sec	10 sec	1 min	10 min	1 h	10 h
switch setting:						

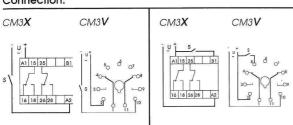
### Front view:

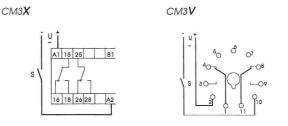


#### Front view:



## Connection:

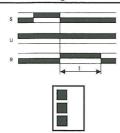


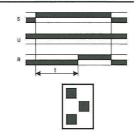


### aW single- shot trailing edge

# E(S)on-delay with control contact

### Function diagram and function selection:





# Description of function:

The input voltage U must be applied continuously to the unit.

Closure of the control contact has no effect on the unit. If the control contact S is opened, the output relay R comes into operation and the set time begins to run.

the set time begins to run.
The output relay R resets on expiry of time t. Until time t is fully expired, repeat opening of the control contact has no effect. This function can thus be used for extending an interruption.

The input voltage Umust be applied continuously to the unit. When the control contact S is closed, the set time t begins to run. On expiry of time t the output relay energises. It remains in the on-position for as long as the control contact S is closed.

#### Selection of time ranges:

time ranges: 1 sec 10 sec 1 min 10 min 1 h 10 h

switch setting:

# Front view:

CM3**X** 

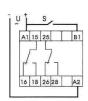






# Connection:

CM3X



CM3**V** 

